

Form PTO/SB/08

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**  
 (Use several sheets if necessary)

 Docket Number (Optional)  
 CIBT-P06-120

 Application Number  
 09/991,480

 Applicant  
 Toma et al.

 Filing Date  
 November 9, 2001

 Group Art Unit  
 1646

DEC 22 2005

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
DS	AA	WO 93/01275	1/21/93	PCT			
	AB	WO 94/09119	4/28/94	PCT			
	AC	WO 94/10292	5/11/94	PCT			
	AD	WO 94/16718	8/4/94	PCT			
	AE	WO 95/12665	5/11/95	PCT			
	AF	WO 95/13364	5/18/95	PCT			
	AG	WO 97/41208	11/6/97	PCT			
	AH	WO 99/56759	11/11/99	PCT			

**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages Etc.)

DS	AI	Anderson, D.J. Stem cells and transcription factors in the development of the mammalian neural crest. <i>FASEB J.</i> 8, 707-713 (July 1994).
	AJ	Arsenijevic, Y. & Weiss, S. Insulin-Like Growth Factor-I is a Differentiation Factor for Postmitotic CNS Stem Cell-Derived Neuronal Precursors: Distinct Actions from Those of Brain-Derived Neurotrophic Factor. <i>J. Neurosci.</i> 18, 2118-2128 (15 March 1998).
	AK	Arsenijevic, Y. et al. Insulin-Like Growth Factor-I is Necessary for Neural Stem Cell Proliferation and Demonstrates Distinct Actions of Epidermal Growth Factor and Fibroblast Growth Factor-2. <i>J. Neurosci.</i> 21, 7194-7202 (15 Sept. 2001).
	AL	Auerbach, J.M. et al. Transplanted CNS stem cells form functional synapses in vivo. <i>Eur. J. Neurosci.</i> 12, 1696-1704 (May 2000).
	AM	Avoli, M. et al. Pharmacology and Electrophysiology of a Synchronous Gaba-Mediated Potential in the Human Neocortex. <i>Neurosci.</i> 62, 655-666 (1994).
	AN	Bamji, S. et al. Comparison of the Expression of a Talphal:nlacZ Transgene and Talphal alpha-Tubulin mRNA in the Mature Central Nervous System. <i>J. Comp. Neurol.</i> 374, 52 (1996).
	AO	Bellows, C.G. et al. Determination of Numbers of Osteoprogenitors present in Isolated Fetal Rat Calvaria Cells In Vitro. <i>Dev. Biol.</i> 133, 8-13 (1989).
	AP	Bjornson, C.R.R. et al. Turning Brain into Blood: A Hematopoietic Fate Adopted by Adult Neural Stem Cells in Vivo. <i>Science</i> 283, 534-537 (1999).

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		Bruckenstein, D.A. & Higgins, D. Morphological Differentiation of Embryonic Rat Sympathetic Neurons in Tissue Culture. <i>Dev. Biol.</i> 128, 324-336 (1988).	
	AR	Brustle, O. et al. Embryonic Stem Cell-Derived Glial Precursors: A Source of Myelinating Transplants. <i>Science</i> 285, 754-756 (30 July 1999).	
*	AS	Burns, S. et al. A primate model of parkinsonism: Selective destruction of dopaminergic neurons in pars compacta of the substantia nigra by N-methyl-4-phenyl-1,2,3,6-tetra-hydropyridine. <i>PNAS</i> 80, 4546-4550 (1983).	
*	AT	Calof et al. Analysis of Neurogenesis in a Mammalian Neuroepithelium: Proliferation and Differentiation of an Olfactory Neuron Precursor in Vitro. <i>Neuron</i> 3, 315 (1989).	
	AU	Cameron, H.A. & McKay, R. Stem cells and neurogenesis in the adult brain. <i>Curr. Opin. Neurobiol.</i> 8, 677-680 (Oct. 1998).	
*	AV	Carlsson, A. et al. 3,4-Dihydroxyphenylalanine and 5-Hydroxytryptophan as Reserpine Antagonists. <i>Nature</i> 180, 1200 (1957).	
	AW	Clarke, D.L. et al. Generalized Potential of Adult Neural Stem Cells. <i>Science</i> 288, 1660-1663 (2000).	
	AX	Daadi, M. et al. Activin Co-operates with Fibroblast Growth Factor 2 to Regulate Tyrosine Hydroxylase Expression in the Basal Forebrain Ventricular Zone Progenitors. <i>Neurosci.</i> 86, 867-880 (Oct. 1998).	
	AY	Daadi, M.M. & Weiss, S. Generation of Tyrosine Hydroxylase-Producing Neurons from Precursors of the Embryonic and Adult Forebrain. <i>J. Neurosci.</i> 19, 4484-4497 (June 1999).	
	AZ	Dunnet, S.B. et al. Nigral transplants in primate models of parkinsonism. <i>Intracereb. Transplant. Movem. Disord.</i> , O. Lindvall, et al., eds. Restorative Neurology 4, 27-51 (1991).	
*	BA	Ehringer, H. et al. Verteilung von noradrenalin und dopamine (3-hydroxytyramin) im gehirn des menschen und ihr verhalten bei erkrankungen des extrapyramidalen systems. <i>Klin. Wschr.</i> 38, 1236-1239 (1960).	
*	BB	Fahn, S. Fetal-tissue Transplants in Parkinson's Disease. <i>N.E. J. Med.</i> 327, 1589-1590 (1992).	
	BC	Ferrari, G. et al. Muscle Regeneration by Bone Marrow-Derived Myogenic Progenitors. <i>Science</i> 279, 1528-1530 (1998).	
	BD	Forsberg-Nilsson, K. et al. Platelet-Derived Growth Factor Induces Chemotaxis of Neuroepithelial Stem Cells. <i>J. Neurosci. Res.</i> 53, 521-530 (Sept. 1998).	
*	BE	Friachard et al. In vitro differentiation of embryonic stem cells into glial cells and functional neurons. <i>J. Cell. Sci.</i> 108, 3181-3185 (1995).	
*	BF	Gage, F.H. et al. Survival and differentiation of adult neuronal progenitor cells transplanted to the adult brain. <i>PNAS</i> 92, 11879-11883 (1995).	
*	BG	Gloster, A. et al. The T-alpha1 alpha-Tubulin Promoted Specific Gene Expression as a Function of Neuronal Growth and Regeneration in Transgenic Mice. <i>J. Neurosci.</i> 14, 7319-7330 (1994).	

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		Greenwood, A.L. et al. Identification of dividing, determined sensory neuron precursors in the mammalian neural crest. <i>Development</i> 126, 3545-3559 (Aug. 1999).	
	BI	Gussoni, E. et al. Dystrophin expression in the mdx mouse restored by stem cell transplantation. <i>Nature</i> 401, 390-394 (1999).	
	BJ	Huard, J.M.T. et al. Adult Olfactory Epithelium Contains Multipotent Progenitors that Give Rise to Neurons and Non-Neural Cells. <i>J. Comp. Neurol.</i> 400, 469-486 (2 Nov. 1998).	
*	BK	Kaufman, S.J. et al. Replicating myoblasts express a muscle-specific phenotype. <i>PNAS</i> 85, 9606-9610 (1988).	
	BL	Keirstead, H.S. et al. Polysialylated Neural Cell Adhesion Molecule-Positive CNS Precursors Generate Both Oligodendrocytes and Schwann Cells to Remyelinate the CNS after Transplantation. <i>J. Neurosci.</i> 19, 7529-7536 (1999).	
	BM	Kessler, P.D. & Byrne, B.J. Myoblast Cell Grafting into Heart Muscle: Cellular Biology and Potential Applications. <i>Ann. Rev. Physiol.</i> 61, 219-242 (1999).	
	BN	LaBonne, C. & Bronner-Fraser, M. Induction and Patterning of the Neural Crest, a Stem Cell-Like Precursor Population. <i>J. Neurobiol.</i> 36, 175-189 (1998).	
*	BO	Langston, J.W. et al. Chronic Parkinsonism in Humans Due to a Product of Meperidine-Analog Synthesis. <i>Science</i> 219, 979-980 (1983).	
	BP	Lee, S.H. et al. Efficient generation of midbrain and hindbrain neurons from mouse embryonic stem cells. <i>Nat. Biotechnol.</i> 18, 675-679 (June 2000).	
*	BQ	LeGal La Salle, G. et al. An Adenovirus Vector for Gene Transfer into Neurons and Glia in the Brain. <i>Science</i> 259, 988-990 (1993).	
	BR	Lumelsky, N. et al. Differentiation of Embryonic Stem Cells to Insulin-Secreting Structures Similar to Pancreatic Islets. <i>Science</i> 292, 1389-1394 (18 May 2001).	
	BS	Lundberg, C. et al. Survival, Integration, and Differentiation of Neural Stem Cell Lines after Transplantation to the Adult Rat Striatum. <i>Exp. Neurol.</i> 145, 342-360 (June 1997).	
*	BT	Mayo, M.L. et al. Desmin expression during early mouse tongue morphogenesis. <i>Int. J. Dev. Biol.</i> 36, 255-263 (1992).	
	BU	McKay, R. Stem Cells in the Central Nervous System. <i>Science</i> 276, 66-71 (4 April 1997).	
	BV	McKay, R. Stem cells - hype and hope. <i>Nature</i> 406, 361-364 (27 July 2000).	
	BW	Morrison, S.J. et al. Prospective Identification, Isolation by Flow Cytometry, and In Vivo Self-Renewal of Multipotent Mammalian Neural Crest Stem Cells. <i>Cell</i> 96, 737-749 (5 March 1999).	
	BX	Morrison, S.J. et al. Transient Notch Activation Initiates an Irreversible Switch from Neurogenesis to Gliogenesis by Neural Crest Stem Cells. <i>Cell</i> 101, 499-510 (26 May 2000).	

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1646Morshead, C.M. et al. Neural Stem Cells in the Adult Mammalian Forebrain: A Relatively Quiescent Subpopulation of Subependymal Cells. *Neuron* 13, 1071-1082 (Nov. 1994).

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Mujtaba, T. et al. A Common Neural Progenitor for the CNS and PNS. *Dev. Biol.* 200, 1-15 (1998).

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Orlic, D. et al. Bone marrow cells regenerate infarcted myocardium. *Nature* 410, 701-705 (5 April 2001).

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Ourednik, v. et al. Developmental Biology: Frontiers for Clinical Genetics. *Clin. Genet.* 56, 267-278 (1999).

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Peel, A.L. & Feldman, D.H. Co-localization of glial and neuronal markers in RGF-generated cultures of pluripotent CNS stem cells. *Society Neurosci.* 21, 285:122.6 (1995).

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Pereira, R.F. et al. Cultured adherent cells from marrow can serve as long-lasting precursor cells for bone, cartilage, and lung in irradiated mice. *PNAS* 92, 4857-4861 (1995).

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Peterson, B.E. et al. Bone Marrow as a Potential Source of Hepatic Oval Cells. *Science* 284, 1168-1170 (1999).

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Pittenger, M.F. et al. Multilineage Potential of Adult Human Mesenchymal Stem Cells. *Science* 284, 143-147 (1999).

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Prockop, D.J. Marrow Stromal Cells as Stem Cells for Nonhematopoietic Tissues. *Science* 276, 71-74 (1997).

CH

Represa, A. et al. EGF-responsive neural stem cells are a transient population in the developing mouse spinal cord. *Eur. J. Neurosci.* 14, 452-462 (Aug. 2001).

CI

Reynolds, B.A. & Weiss, S. Generation of Neurons and Astrocytes from Isolated Cells of the Adult Mammalian Central Nervous System. *Science* 255, 1707-1710 (1992).

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Reynolds, B.A. & Weiss, S. Clonal and Population Analyses Demonstrate that an EGF-Responsive Mammalian Embryonic CNS Precursor is a Stem Cell. *Dev. Biol.* 175, 1-13 (10 April 1996).

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Rietze, R. et al. Mitotically Active Cells that Generate Neurons and Astrocytes are Present in Multiple Regions of the Adult Mouse Hippocampus. *J. Comp. Neurol.* 424, 397-408 (28 Aug. 2000).

CL

Sanchez-Pernaute, R. et al. In Vitro Generation and Transplantation of Precursor-Derived Human Dopamine Neurons. *J. Neurosci. Res.* 65, 284-288 (15 Aug. 2001).

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Schubert, D. et al. Ontogeny of electrically excitable cells in cultured olfactory epithelium. *PNAS* 82, 7782-7786 (1985).

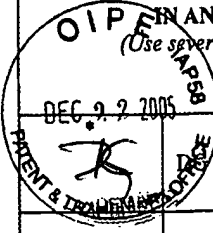

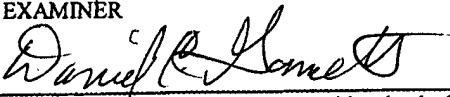
CN

Shah, N.M. et al. Glial Growth Factor Restricts Mammalian Neural Crest Stem Cells to a Glial Fate. *Cell* 77, 349-360 (6 May 1994).

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Shimazaki, T. et al. The Ciliary Neurotrophic Factor/Leukemia Inhibitory Factor/gp130 Receptor Complex Operates in the Maintenance of Mammalian Forebrain Neural Stem Cells. *J. Neurosci.* 21, 7642-7653 (1 Oct. 2001).

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		Sieber-Blum, M. Factors Controlling Lineage Specification in the Neural Crest. <i>Intl. Rev. Cytol.</i> 197, 1-33 (2000).	
	CQ	Slack, R.S. & Miller, F.D. Viral vectors for modulating gene expression in neurons. <i>Curr. Opin. Neural Biol.</i> 6, 576-583 (1996).	
*	CR	Slack, R.S. et al. Adenovirus-mediated Gene Transfer of the Tumor Suppressor, p53, Induces Apoptosis in Postmitotic Neurons. <i>J. Cell. Biol.</i> 135, 1085-1096 (1996).	
*	CS	Soriano, E. et al. Simultaneous Immunocytochemical Visualization of Bromodeoxyuridine and Neural Tissue Antigens. <i>J. Histochem. Cytochem.</i> 39, 255-263 (1991).	
*	CT	Sosnowski, E. et al. Chemical traumatization of adult mouse olfactory epithelium in situ stimulates growth and differentiation of olfactory nerves in vitro. <i>Brain Res.</i> 702, 37-48 (1995).	
	CU	Stemple, D.L. & Anderson, D.J. Isolation of a Stem Cell for Neurons and Glia from the Mammalian Neural Crest. <i>Cell</i> 71, 973-985 (11 Dec. 1992).	
	CV	Studer, L. et al. Transplantation of expanded mesencephalic precursors leads to recovery in parkinsonian rats. <i>Nat. Neurosci.</i> 1, 290-295 (August 1998).	
	CW	Taylor, G. et al. Involvement of Follicular Stem Cells in Forming Not Only the Follicle but Also the Epidermis. <i>Cell</i> 102, 451-461 (18 Aug. 2000).	
	CX	Tsai, R.Y.L. & McKay, R.D.G. Cell Contact Regulates Fate Choice by Cortical Stem Cells. <i>J. Neurosci.</i> 20, 3725-3735 (2000).	
*	CY	Ungerstedt, U. et al. Quantitative Recording of Rotational Behavior in Rats After 6-Hydroxy-Dopamine Lesions of the Nigrostriatal Dopamine System. <i>Brain Res.</i> 24, 485-493 (1970).	
	CZ	van der Kooy, D. & Weiss, S. Why Stem Cells? <i>Science</i> 287, 1439-1441 (25 Feb. 2000).	
	DA	Vescovi, A.L. et al. bFGF Regulates the Proliferative Fate of Unipotent (Neuronal) and Bipotent (Neuronal/Astroglial) EGF-Generated CNS Progenitor Cells. <i>Neuron</i> 11, 951-966 (Nov. 1993).	
	DB	Weiss, S. Pathways for neural stem cell biology and repair. <i>Nat. Biotechnol.</i> 17, 850-851 (Sept. 1999).	
*	DC	Weiss, S. et al. Is there a neural stem cell in the mammalian forebrain? <i>Trends Neurosci.</i> 19, 387-393 (Sept. 1996).	
	DD	Weiss, S. et al. Multipotent CNS Stem Cells Are Present in the Adult Mammalian Spinal Cord and Ventricular Neuroaxis. <i>J. Neurosci.</i> 16, 7599-7609 (1 Dec. 1996).	
	DE	White, P.M. et al. Neural Crest Stem Cells Undergo Cell-Intrinsic Developmental Changes in Sensitivity to Instructive Differentiation Signals. <i>Neuron</i> 29, 57-71 (Jan. 2001).	
*	DF	Widner, H. et al. Bilateral fetal mesencephalic grafting in two patients with parkinsonism induced by 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP). <i>N.E. J. Med.</i> 327, 1556-1563 (1993).	

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		November 9, 2001		1646	
		Winkler, C. et al. EGF-responsive neural progenitor cells, survive, migrate and differentiate after transplantation into the adult rat striatum. <i>Society for Neurosci.</i> 21, 2029:796.19 (1995).			
		DH		Wohl, C.A. & Weiss, S. Retinoic Acid Enhances Neuronal Proliferation and Astroglial Differentiation in Cultures of CNS Stem Cell-Derived Precursors. <i>J. Neurobiol.</i> 37, 281-290 (5 Nov. 1998).	
EXAMINER			DATE CONSIDERED		
			1/30/2006		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.					

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